

1x1 Port Tab upright Surface Mount RJ45 Connector
with Integrated Magnetics and LED
for 10/100Base-T PoE Application



HR965330AE

Electrical Specification @25°C

RoHS Compliant (PB Free)

Isolation: 2250VDC 0.5mA 60sec (J1~8 to P1~5 & SHIELD)

OCL: 350uH Minimum @100KHz 100mV with 8mADC

Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz

Return Loss: -18dB Minimum @1MHz ~ 30MHz / -13.5dB Minimum @30MHz ~ 60MHz

-12dB Minimum @60MHz ~ 80MHz / -10dB Minimum @80MHz ~ 100MHz

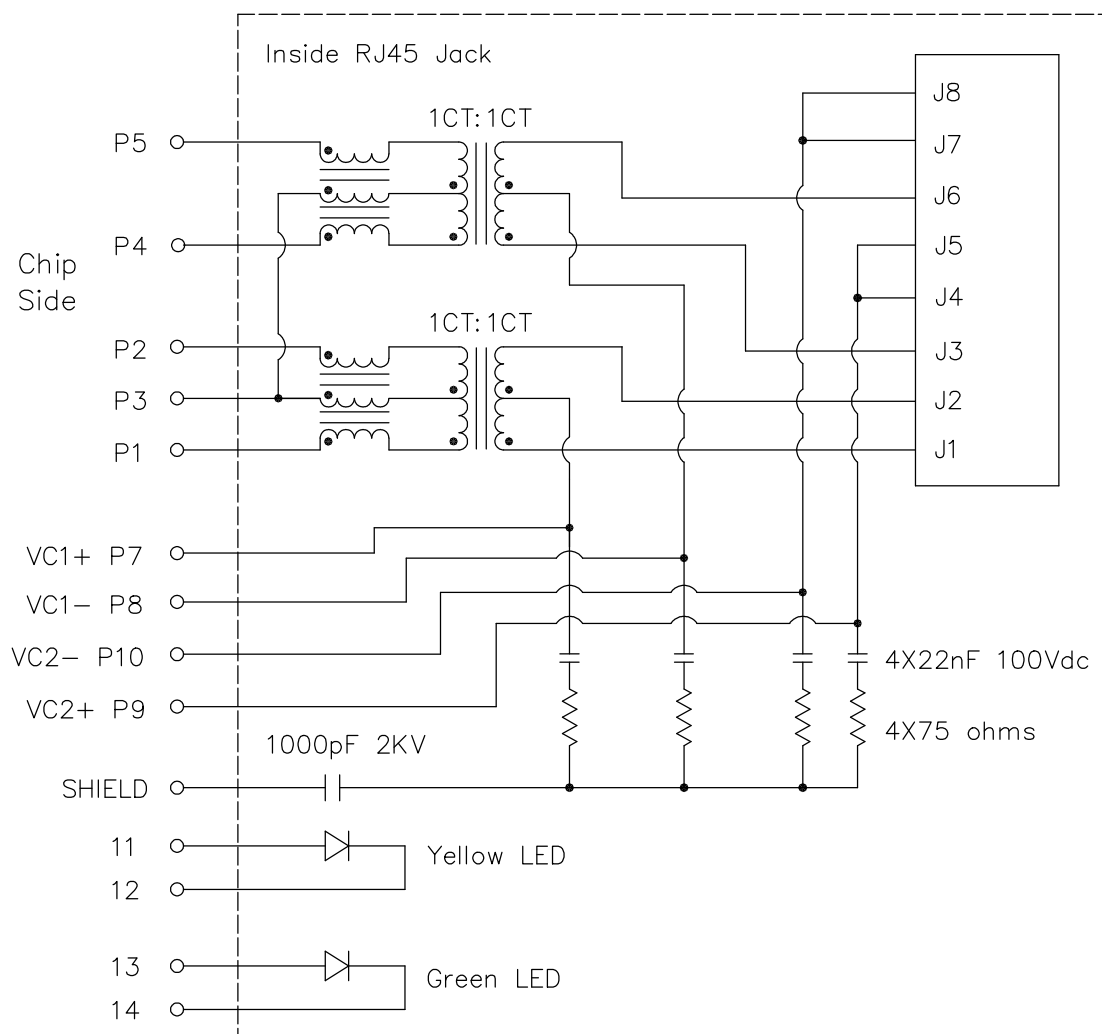
Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz

Crosstalk: -26dB Minimum @1MHz ~ 100MHz

Designed To Support 57VDC, 350mA per centre taps

(17.5W when using 2 centre taps; 35W when using 4 centre taps)

Schematics

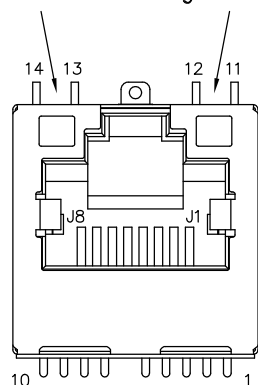


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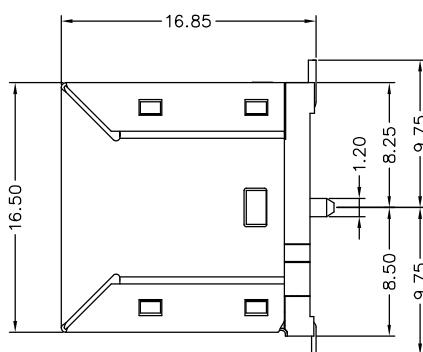
- RoHS Compliant (Pb Free)
- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3af standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to place on PCB, Higher reliability and yields
- UL Recognized Component: File # E330599

Mechanical Dimensions:

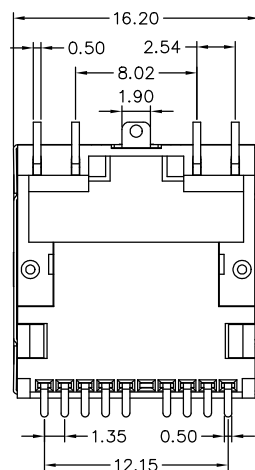
Green LED Yellow LED
Left LED Right LED



Top View



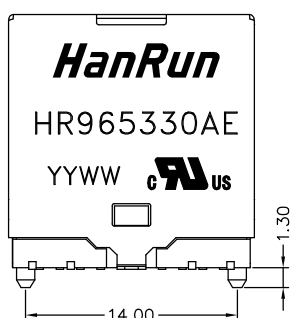
Side View



Bottom View

Remark:

1.Remove Pin#6



Back View

Standard LED	Wavelength	Forward V (Min/Max)	Forward A
Green	568nm	1.8V/2.8V	20mA
Yellow	585nm	1.8V/2.8V	20mA

Dimensions in mm

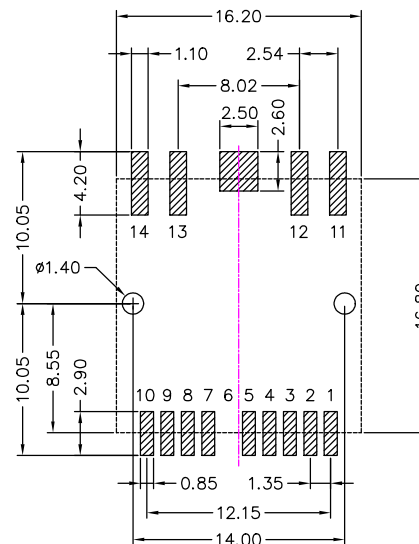
Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 00

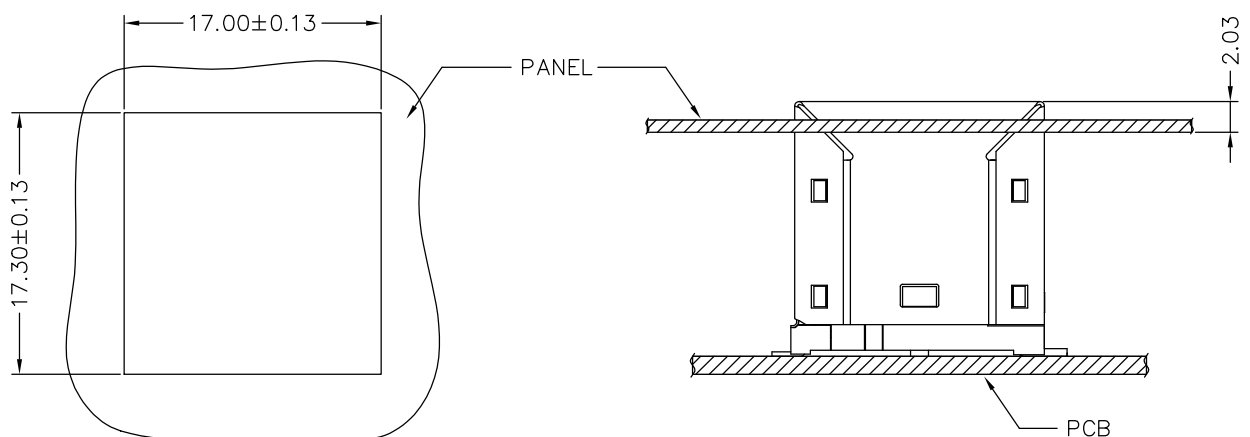
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Mechanical Dimensions:



Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

REV.: 00

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Material Specification:

Housing: LCP Black UL94V-0
Shield: 30u" Nickel over 0.20mm Thickness Brass
Insert: LCP Black UL94V-0
Phosphor Bronze 0.30mm Thickness
Plating Area, 30u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel
Contact pin: LCP Black UL94V-0
Phosphor Bronze; 100u" Tinning

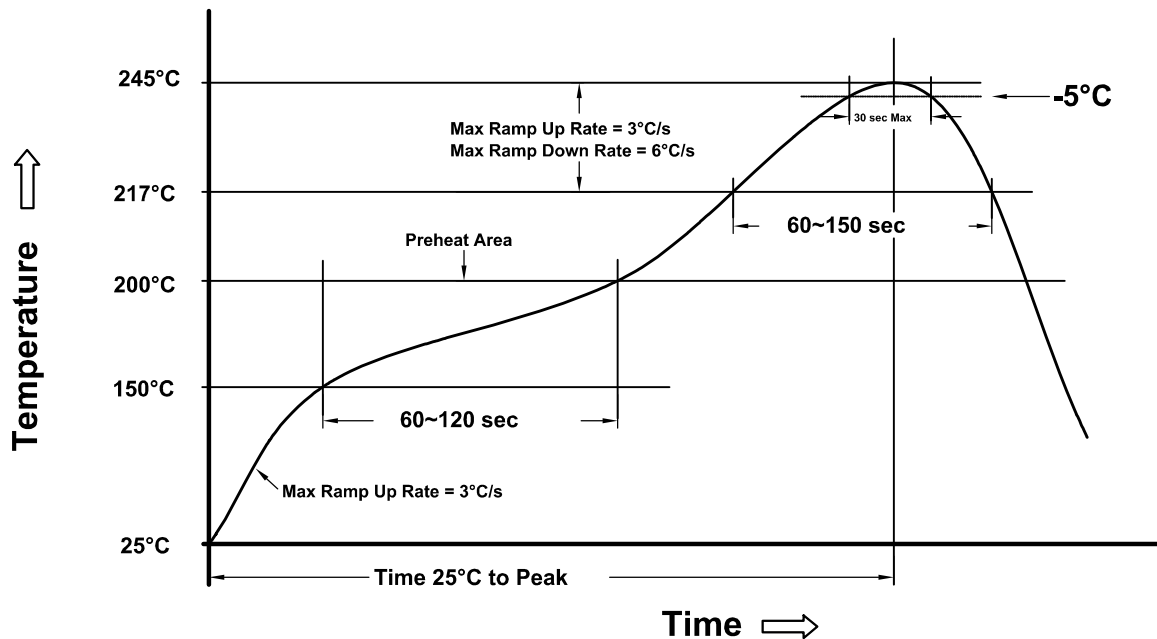
Mechanical Performance:

Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: -40°C ~ +85°C
Storage Temperature Range: -40°C ~ +85°C

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Remarks:

- peak temperature = 245°C
- Maximum preheat rate = 3°C / sec
- Ramp up rate = 3°C / sec max
- Time above 217°C = 60 sec min / 150 sec max
- Maximum cooling rate = 6°C / sec
- T 25°C to peak = 8 min max
- preheat Time = 60 ~ 120 sec
- The number of allowed cycles in IR reflow ≤ 2 cycles